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L33	front adj4 padded adj4 allocation	0	L33
L32	130 same (permission or protect or protection or protecting)	3	L32
L31	130 same (bound or boundary)	1	L31
L30	capability pointer	66	L30

<u>L29</u>	L28 and l27	19	<u>L29</u>
<u>L28</u>	((page or block) adj2 size) same (number adj2 (page or block)) same segment	161	<u>L28</u>
<u>L27</u>	(multiple or variable or varying) adj2 (page or block) adj2 (size or length)	1248	<u>L27</u>
<u>L26</u>	((block or page) adj3 size) same (('number of blocks') or ('number of pages')) same (identifier or address or page number) same offset	0	<u>L26</u>
<u>L25</u>	((block or page) adj3 size) same (number adj2 (block or page)) same (identifier or address or page number) same offset	130	<u>L25</u>
<u>L24</u>	5845331[uref]	14	<u>L24</u>
<u>L23</u>	l20 same segment	13	<u>L23</u>
<u>L22</u>	l20 same capability	13	<u>L22</u>
<u>L21</u>	L20 and l19	3	<u>L21</u>
<u>L20</u>	(pointer or identifier or ID or descriptor) same size same length same (permission or protect)	88	<u>L20</u>
<u>L19</u>	(((711/2??))!.CCLS.)	4333	<u>L19</u>
<u>L18</u>	((711.2??)!.CCLS.)	0	<u>L18</u>
<u>L17</u>	(object adj (capability or capabilities)) same (permission or protect or protection)	12	<u>L17</u>
<u>L16</u>	object adj (capability or capabilities)	945	<u>L16</u>
<u>L15</u>	(descriptor or capability or pointer) same segment same (bound or limit) same permission	16	<u>L15</u>
<u>L14</u>	(descriptor or capability or pointer) same segment same bound same permission same (size or length) same (number or amount)	0	<u>L14</u>
<u>L13</u>	capability same segment same permission same bound	2	<u>L13</u>
<u>L12</u>	capability pointer	66	<u>L12</u>
<u>L11</u>	guarded adj2 pointer	6	<u>L11</u>
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3. [\[CST-2\] \[AST\] **Capability Based Addressing**](#)
[CST-2] [AST] **Capability Based Addressing**. Pete Campton [cst-2@srcf.ucam.org](#) 27 May 2003 14:43:46 +0100: ... Next message: [CST-2] [AST] **Capability Based Addressing**; ...
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Capability-Based Addressing. RS Fabry @ UC-Berkeley. Communications of the ACM, July 1974, pages 403-412. Introduction. **Capability**: absolute ...
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....reliability, resilience, recovery and fault tolerance. Haer83 Kohl81 Oki83 Shin84 Svob84 Verh78] Security: Security issues for objects seem to be well addressed by capabilities. The Hydra system contains some interesting ideas. The Landwehr paper is a survey of various techniques and paradigms. [Cohe75 Fabr74 Land81 Wulf74] **Surveys: The following are surveys of various object oriented systems and concepts, or special issues.** See also concepts. Benn82 BYTE86 Nier86 Nyga86 Obj85 Obj86 Oops86 Stef85 Stoy84] Transactions: The notion of transactions and atomic actions, particularly nested transactions, is relevant to

R.S. Fabry, "Capability-Based Addressing", CACM, vol. 17, no. 7, pp. 403-412, July 1974.

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....locking is typically used to implement this sort of behaviour [Moss81, Verh78] The object manager is also responsible for bringing needed objects into memory and resolving object identifiers to actual memory addresses. **Object identifiers can be thought of as capabilities for addressing objects [Fabr74].** Oids are actually capabilities for sending messages, i.e. for performing operations. One thus distinguishes not merely between, say, read and write operations, but between all of the various operations supported by an object. **This** is the same philosophy adopted in the Hydra operating system

R.S. Fabry, "Capability-Based Addressing", CACM, vol. 17, no. 7, pp. 403-412, July 1974.

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....well proven concept, the capability. **Suppose** all operations concerned have already been approved by the access control model; in this case a network entity can choose to handoff a session to a specific set of network entities by securely delivering its session capability to them. **A capability [19, 22] is formally defined as an unforgeable pair made up of (i) a unique object identifier and (ii) a set of authorised operations as the interface associated with the object.** Security in a capability based model is enforced by three properties: i) capabilities are unforgeable and tamper proof; ii)

R. Fabry. *Capability-Based Addressing*. Communication of the ACM, 17(7):403–412, 1974.

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....nodes. **One** notable departure from the conventional approach is the J machine [51] parallel computer. **In the J machine, all references to objects, distributed or otherwise, are indirected through a segment table on each node; this style of addressing is similar to that used by early capability [14] architectures [39] Using indirection tables allows the J machine to provide distributed objects with arbitrary, globally unique names.** The COSMOS operating system [25] uses the J machine s translation tables to name aggregate objects . Aggregate objects are composed of representative objects

R. S. Fabry. *Capability-based addressing*. Communications of the ACM, 17(7):403– 12, July 1974.

[Sparsely Faceted Arrays: A Mechanism Supporting Parallel.. - Brown \(2002\)](#) (1 citation) (Correct)

....nodes. 17 **One** notable departure from the conventional approach is the J machine [51] parallel computer. **In the J machine, all references to objects, distributed or otherwise, are indirected through a segment table on each node; this style of addressing is similar to that used by early capability [14] architectures [39]**


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